

COPY

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

August 15, 1991

Genwal Coal Company  
P.O.Box 1201  
Hungington, Utah 84528

Attn: Jay Marshall

Dear Mr. Marshall:

Enclosed are the results of the analysis on the soil sample we received at our lab August 5, 1991. The samples were analyzed according to the Utah Department of Natural Resources "Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining, Table 6," April, 1988.

If you have any questions, or we can be of any further service, please call at your convenience. Thank you.

Sincerely,

*Mary Stepp*

Mary Stepp  
Soil Director

Enc.

xc: File



InterMountain Laboratories, Inc.

2506 West Main Street

Farmington, New Mexico 87401

Tel. (505) 326-4737

GENMAL COAL COMPANY  
HUNTINGTON, UTAH

DATE REPORTED: August 15, 1991

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Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR	Sand %	Silt %	Clay %	Texture
13244	CVR		7.6	5.36	19.5	29.6	9.79	1.98	74.5	17.9	7.6	SANDY LOAM



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Lab No.	Location	Depths	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Boron ppm	H2O Sol Selenium ppm
13244	CVR		0.22	6.87	173.	166.	0.78	<0.02

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, ABPTA= Ammonium Bicarbonate-DPTA, AAO= Acid Ammonium Oxalate

Abbreviations in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neut. Pot.= Neutralization Potential

Table 6. Recommended Laboratory Methods

Parameters	Reported As	Suggested Methods
pH		ASA Mono. No. 9, Part 2, (2 ed), 1982. Method 10-3.2, page 171. Perform pH on saturated paste.
Electrical Conductivity (EC <sub>e</sub> )	mmhos/cm 25°C	ASA Mono. No. 9, Part 2 (2 ed), 1982. Method 10-3.3, pages 172-173.
Saturation Percentage	%	SP = 100(total wt of water)/(wt of oven-dry soil). Wts of water and soil known when making a saturated paste.
Particle Size Analysis (texture)	% sand, silt, clay	Hydrometer method. Black et al. 1965. Methods of soil analysis. ASA Mono No. 9, Part 1, method 43-5, pages 562-566.
Soluble Ca, Mg and Na	me/l	ASA Mono. No. 9, Part 2, (2 ed), 1982. Method 10-3.4. pages 173-174.
Sodium Adsorption Ratio	SAR calculated from soluble Ca, Mg & Na	$\frac{[Na^+]}{([Ca^{2+} + Mg^{2+}]/2)^{0.5}}$
Selenium	mg/Kg	Extraction by ASA Mono. No. 9, Part 2 (1 ed), 1965. Method 80-3.2, page 1122. Analyze by Hydride generation for AA or ICP. ASA Mono. No. 9, Part 2 (2 ed), 1982. Method 3-5.5, pages 59-61.

Table 6. (continued)

Parameters	Reported As	Suggested Methods
Total N	%	ASA Mono. No. 9, Part 2 (2 ed), 1982. Method 31-3, pages 610-616.
Nitrate-N	mg/Kg	ASA Mono No. 9, Part 2 (2 ed), 1982. Methods 33-4.1, pages 643-645; 33-8.3, pages 679-682 or Sims J. R., and G. D. Jackson. 1977. Soil Sci. Soc. Am. Proc. 35:603-607.
Boron	mg/Kg	ASA Mono No. 9, Part 2 (2 ed), 1982. Method 25-9.1, page 443 for extraction and Method 25-5, pages 443-446 for analysis.
Maximum Acid Potential	%	US EPA. 1978. EPA - 600/2-78-054. Method 3.2.6, Page 60.
Neutralization Potential	%	US EPA. 1978. EPA - 600/2-28-054. Method 3.2.3, page 47.
Organic Carbon	%	ASA Mono No. 9, Part 2 (2 ed), 1982. Method 29-3.5.3, pages 571-573.
Exchangeable Sodium*		ASA Mono No. 9, Part 2 (2 ed), 1982. Method 13-4.4, pages 238-241. Using Flame Emission and using extractates in method 8-3, page 152.
Available Water Capacity	in/in	USDA SCS Soil Survey Investigation Report No. 1, Method 4C1, page 24.



# GENWAL COAL COMPANY

October 8, 1991

Mr. Daron Haddock  
Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
355 West North Temple  
Salt Lake City, UT 84180-1203

RE: Permit # ACT 015-032  
Genwal Coal Company

Dear Mr. Haddock:

In accordance with our mining and reclamation program, Genwal Coal Company entered into a joint raptor nest survey with Bill Bates (Utah Division of Wildlife Resources) and Pacificorp of Huntington, Utah. This aerial survey was conducted and completed the end of May or first of June, 1991.

On October 7, 1991, I received the enclosed report from Val Payne of Pacificorp with the results of the survey. This report and information will be inserted into Genwal's 1991 yearly report which will be submitted to the Division.

Should you have any questions or need additional information, please contact me at 687-9813.

Sincerely,

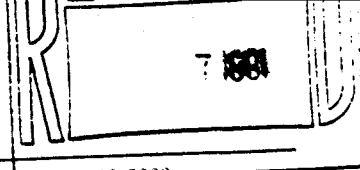
GENWAL COAL COMPANY

Randal J Ralphs  
Surface Foreman

tr

Enclosures

DOGM\HADDOC-2.LET



October 7, 1991

Mr. Randall Ralphs  
GENWAL Coal Co. Inc.  
195 North 100 West  
Huntington, Utah 84528

Dear Mr. Ralphs:

Enclosed please find information regarding the 1991 aerial raptor nest survey conducted at your Crandall Canyon Mine. The survey was completed in cooperation with Utah Division of Wildlife Resources, Southeastern Region, Nongame Manager, Mr. Bill Bates.

Using a Bell 206 Jet Ranger helicopter, the escarpments in Crandall Canyon were examined for golden eagle and other raptor nests. Three (3) golden eagle nests were observed. All nests were inactive with one (1) being in good condition and two (2) being old and dilapidated. The locations of the nests are indicated on the attached 8 1/2 " x 11" portion of the U.S.G.S. 7.5 minute Rilda Canyon Quadrangle.

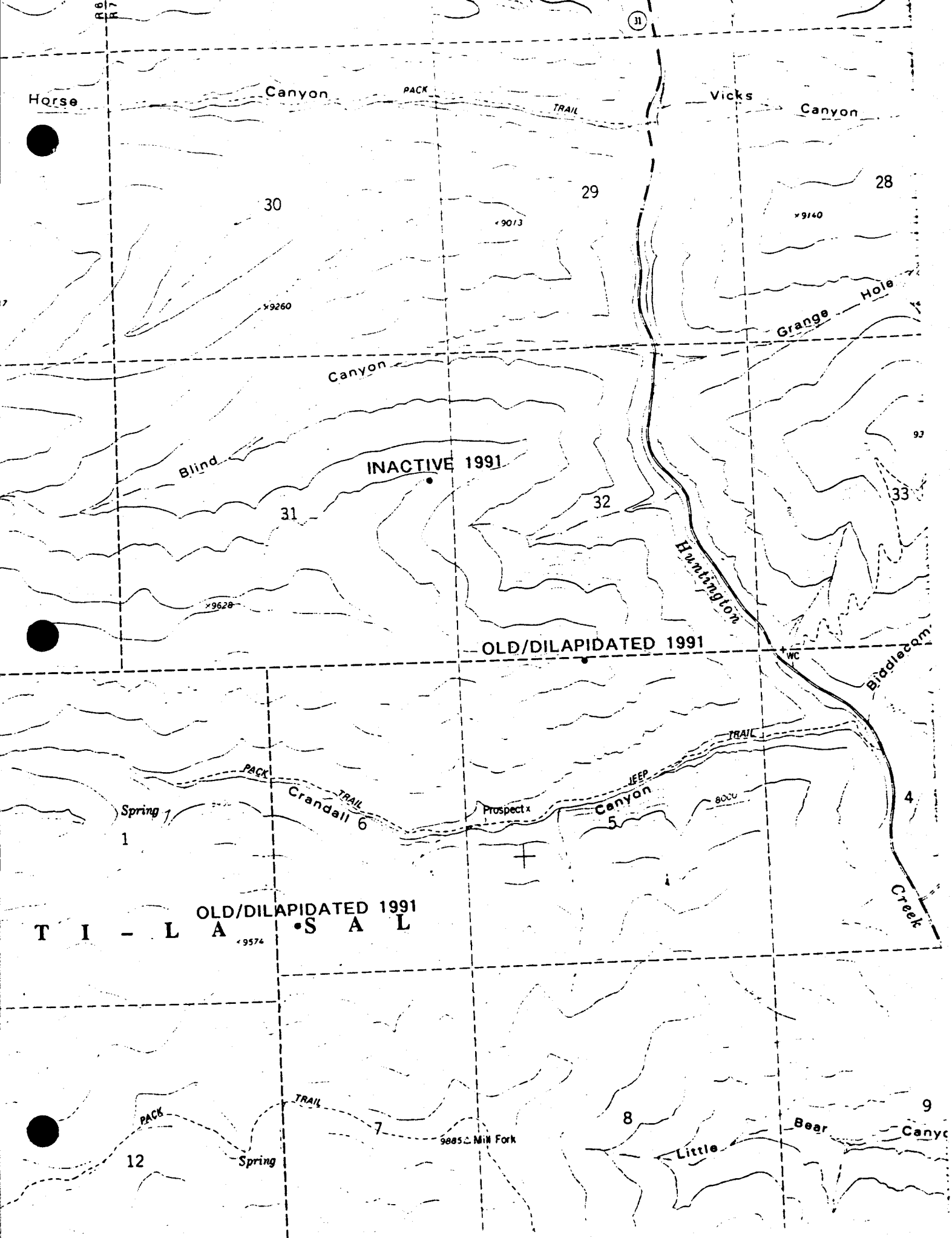
Accompanying this information is an invoice for the costs associated with the survey. Please submit payment as stated on the invoice. For your convenience, I have also attached a copy of the agreement regarding this project.

Please accept my apology for the delay in the submittal of this information. If you have questions please contact Val Payne at 653-2312.

Sincerely,

J. Blake Webster  
Permitting Administrator

VP/dw  
Enclosures





324 South State  
P.O. Box 26128  
Salt Lake City, Utah 84126-0128

PACIFICORP  
ELECTRIC OPERATIONS GROUP

May 23, 1991

Mr. Randall Ralphs  
GENWAL Coal Co. Inc.  
195 North 100 West  
Huntington, Utah 84528

Dear Mr. Ralphs:

Per your inquiry to Mr. Bill Bates (Utah Division of Wildlife Resources), regarding having PacifiCorp personnel conduct an aerial raptor nest survey at your Crandall Canyon mine, please be advised that PacifiCorp will conduct said survey as stipulated herein.

1. The survey will be conducted in cooperation with UDWR.
2. Nest data will be collected by two observers via a Bell Jet Ranger helicopter.
3. Data will be provided to you as raw data. No interpretation of the data will be made by PacifiCorp.
4. Cost of the project will not exceed \$1,000. Charges will be based on the following (hourly rate) schedule:

FIELD LABOR

\$75/hr

OFFICE WORK

\$25/hr

EXPENSES

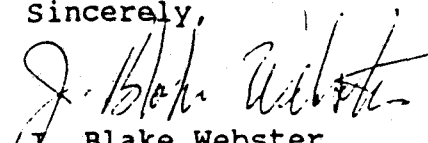
Current helicopter  
rate. (Est.  
\$450/flight hr)

If this proposal is satisfactory, please sign as indicated below and return this document to me at the following address:

J. Blake Webster  
Permitting Administrator  
PacifiCorp Electric Operations  
Fuel Resources  
324 South State Street  
PO Box 26128  
Salt Lake City, Utah 84126-0128

Questions regarding this matter should be directed to me at 220-4584 or Val Payne at 653-2312.

Sincerely,

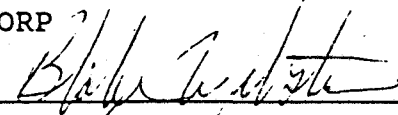
  
J. Blake Webster  
Permitting Administrator

AGREED TO

PACIFICORP

BY:

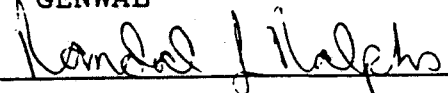
DATE:

  
5/29/91

GENWAL

BY:

DATE:

  
May 29, 1991